

### Abstract

The present invention relates to antibodies, antibody conjugates, and compositions thereof, methods of antibody synthesis, and applications of antibodies useful for detecting the presence of nucleic acid molecules, including short interfering RNA (siRNA) molecules, *in vivo*, such as in a clinical setting. The antibodies of the invention are also useful as screening agents which allow the selection of candidate therapeutic molecules for optimum bioavailability and/or activity, and as delivery agents for cell and tissue specific delivery of nucleic acid molecules.